IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Shah, et al.)
Serial No.: 09/,)
Filed: January 6, 1999)
For: METHOD AND SYSTEM FOR)
SWITCHING SIGNALS OVER)
TWISTED-PAIR WIRES)

DECLARATION CLAIMING SMALL ENTITY **STATUS UNDER 37 CFR 1.9(f) and 1.27(c)** SMALL BUSINESS CONCERN

I hereby

dec	lare that I am	
[] [X]	the owner of the small busine an official of the small busine identified below:	ess concern identified below: ess concern empowered to act on behalf of the concern
	NAME OF CONCERN ADDRESS OF CONCERN	PRAGMATIC COMMUNICTIONS SYSTEMS, Inc. 544 E. Weddell Drive, Suite 8 Sunnyvale, California 94089

I hereby declare that the above identified small business concern qualifies as a small business concern as defined in 13 CFR 121.3-18, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal years, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention entitled METHOD AND SYSTEM FOR SWITCHING SIGNALS OVER TWISTED-PAIR WIRES by inventor(s) Prasanna M. Shah. Robert L. Taber and Herbert J. Kniess, described in the application filed January 6, 1999.

Attorney Docket: 1201P
Page 2 of 2

The rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who could not qualify as a small business concern under 37 CFR 1.9(d) or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this declaration is directed.

NAME OF PERSON SIGNING: TITLE OF PERSON OTHER THAN OWNER: ADDRESS OF PERSON SIGNING: Prasanna M. Shah
President and CEO
544 E. Weddell Drive, Suite 8
Sunnyvale, California 94089

SIGNATURE: Brasana M. Shal

DATE: 1/11/99

DECLARATION AND POWER OF ATTORNEY FOR UTILITY PATENT APPLICATION

As a below named inventor, I hereby declare that:

the specification of which

My residence, post office address and citizenship are as stated below, next to my name,

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

A SYSTEM AND METHOD FOR SWITCHING SIGNALS OVER TWISTED-PAIR WIRES

was	stached hereto. s filed on igned serial number	and			
as amended by used in the Uni any country be- use or on sale been patented of foreign to the U	any amendment ref ted States of Americ fore my invention th in the United States or made the subject	and understand the contents ferred to above. I do not know before my invention there are for more than one year of America more than one of an inventor's certificate erica on an application filedion.	now and do not be eof, or patented or r prior to this appl year prior to this issued before the	lieve that the sam described in any p ication, that the sa application, and s date of this applic	e was ever known or printed publication in me was not in public aid invention has not cation in any country
		information which is materallations, Section 1.56 (a).	erial to the examin	nation of this appli	ication in accordance
patent or invent	tor's certificate listed	efits under Title 35, United 5 lbelow and have also identite that of the application on the state of the application on the state of the application of the state of the	fied below any for	eign application fo	
Prior Foreign A	pplication(s)			Priori	ty Claimed
(Number)	(Country)	(Day/Month/Y	'ear Filed)	Yes	No
(Number)	(Country)	(Day/Month/Y	ear Filed)	Yes	No
below and, inso application in the duty to disclose	ofar as the subject manner provided a manner provided a material information	Title 35, United States Cod atter of each of the claims of by the first paragraph of Tit in as defined in Title 37, Cod application and the national	f this application is le 35, United State le of Federal Regu	not disclosed in the Code, Section 11 lations, Section 1.	the prior United States 12, I acknowledge the 56(a) which occurred
60/072		01/06/98 (Filing Date)		ovisional - pendin	
(Аррисапо	n Serial No.)	(Filing Date)	(Status	- patented, pending	s, abandoned)
(Application	on Serial No.)	(Filing Date)	(Status	- patented, pending	g, abandoned)

Attorney Docket: 1201P Page 2 of 3

I hereby appoint Joseph A. Sawyer, Jr., Reg. No. 30,801 and Janyce R. Mitchell, Reg. No. 40,095, of SAWYER & ASSOCIATES, 2465 East Bayshore Road, Suite 406, Palo Alto, Calif rnia 94303, telephone (650) 493-4540, as my attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Address all telephone calls to Mr. Joseph A. Sawyer, Jr. at telephone number (650) 493-4540 and all correspondence to:

Joseph A. Sawyer, Jr.
SAWYER & ASSOCIATES
P.O. Box 51418
Palo Alto, California 94303

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such wilful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of first/joint Inventor:

Prasanna M. Shah

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Santa Clara

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State

Zip Code

Post Office Address:

SAME

Country of Citizenship:

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Data

lionature

Full Name of second/joint Inventor:

Robert L. Taber

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Whent I Take

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County

State

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Post Office Address:

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Country of Citizenship:

United States of America

1-20-99

Date

Signature

Attorney Docket: 1201P

Page 3 of 3

COMBINED DECLARATION/POWER OF ATTORNEY (Continued)

Full Name of third/joint Inventor:

Herbert J. Kniess

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Santa Clara

California

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County

State

Zip Code

Post Office Address:

SAME

Country of Citizenship:

United States of America

Date

Signature

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REVOCATION OF POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	09/226,869
Filing Date	January 6, 1999
First Named Inventor	Prasanna M. Shah
Group Art Unit	2189
Examiner Name	Paul R. Myers
Attorney Docket Number	1201P

I hereby revo application:	ke all p	revious powers of attorney or authoriza	tions of	f agent given i	in the a	bove-identified	
A Pov	ver of A	ttorney or Authorization of Agent is sub	mitted h	nerewith.			
OR							
∑ Please	change	e the correspondence address for the a	bove-id	dentified appli	cation	to:	
OR	Custom	er Number		▶		Customer er Bar Code here	
Firm or Individual	Name	Donald E. Schreiber, Esq. Donald E. Schreiber A Professional Corp	poration	1			
Address		P.O. Box 2926					
Address							
City		Kings Beach				1	
Country		USA	State	ate California ZIP 96143-2926			
Telephone		(530) 546-6041	Fax	(530) 546-234	0) 546-2341		
I am the: Applicant. Assignee of record of the entire interest Certificate under 37 CFR 3.73(b) is enclosed							
		SIGNATURE of Applicant or Assign	ee of R	ecord			
		na M. Shaw, President tic Communication Systems, Inc.					
Signature		Kroanne M. Shah					
Date		4/24/2003					

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POWER OF ATTORNEY OR AUTHORIZATION OF AGENT, NOT ACCOMPANYING APPLICATION

Application Number	09/226,869	
Filing Date	January 6, 1999	
First Named Inventor	Prasanna M. Shah	
Group Art Unit	2189	
Examiner Name	Paul R. Myers	
Attorney Docket Number	1201P	

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Ap	plicant.					
	nienaa -	of record of the entire interest				
Assignee of record of the entire interest Certificate under 37 CFR 3.73(b) is enclosed						
06						
		SIGNATURE of Applicant or Assig				
Name	Prasanna M. Shaw, President Pragmatic Communication Systems, Inc.					
Signature	B	4/24/2003				
Dat		4/24/2003				

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PTO/SB/122 (05-03)
Approved for use through 11/30/2005. OMB 0651-0035
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CHANGE OF CORRESPONDENCE ADDRESS Application

Address to: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450.

Application Number	(Unknown)
Filing Date	Herewith
First Named Inventor	Prasanna M. Shah
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	2218CON1

Customer Number Type Customer Number here Place Customer Number Bar Cool Label here	le l
OR	
Firm or Individual Name Donald E. Schreiber, Esq.	
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Country United States of America	
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This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124). I am the: Applicant/Inventor Assignee of record of the entire interest. Statement under 37 CFR 3.7(b) is enclosed. (Form PTO/SB/96). Attorney or Agent of record. Registered practitioner named in the application transmittal letter in an application without an executed oath or declaration. See 37 CFR 1.33(a)(1). Registration Number Typed or Printed Donald E. Schreiber Signature Signature Telephone (530) 546-6041	
Date 18 Quyant 2003 Telephone (530) 546-6041	
NOTE: Signatures of All the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below. 171 *Total of All forms are submitted.	

This collection of information is required by 37 CFR 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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CERTIFICA	TE UNDER 37 CFR 3.73(b)
Applicant Prasanna M. Shah	
Application No.: 09/226,869	Filed: January 6, 1999
Entitled: SYSTEM AND METHOD FOR SWITCHIN	NG SIGNALS OVER TWISTED-PAIR WIRES
Pragmatic Communication Systems, Inc , a	a <u>corporation</u> ,
(Name of Assignee)	(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
certifies that it is:	
1. The assignee of the entire right, title, and into	terest; or
2. an assignee of an undivided part interest	
n the patent application identified above by virtue of	either:
A. M An assignment from the inventor(s) of the patent a and Trademark Office at Reel 9846. Frame	application identified above. The assignment was recorded in the Patent 0149, or for which a copy thereof is attached.
OR	
B.[] A chain of title from the inventor(s), of the patent	t application identified above, to the current assignee as shown below:
1. From:	To:
The document was recorded in the Patent a Reel, or for	and Trademark Office at
From: The document was recorded in the Patent a	To:
Reel, Frame, or for	which a copy mereor is attached.
3. From:	
The document was recorded in the Patent a Reel, or for	and Trademark Office at
[] Additional documents in the chain of title a	are listed on a supplemental sheet.
[] Copies of assignments or other documents in the d	chain of title are attached.
The undersigned (whose title is supplied below) is emp	powered to sign this certificate on behalf of the assignee.
4 24 2003	Browne M. Shah
Date	Signature
	Prasanna M. Shah
	Typed or printed name
	President Pragmatic Communication Systems, Inc.
	Title



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS

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JUNE 10, 1999

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SAWYER & ASSOICATES JOSEPH A. SAWYER, JR. P.O. BOX 51418 PALO ALTO, CA 94303

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

JUN 2 1 1999

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/02/1999

REEL/FRAME: 9846/0149

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR''S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SHAH, PRASANNA M.

DOC DATE: 01/11/1999

ASSIGNOR:

TABER, ROBERT L.

DOC DATE: 01/20/1999

ASSIGNOR:

KNIESS, HERBERT J.

DOC DATE: 01/20/1999

FILING DATE: 01/06/1999

ASSIGNEE:

PRAGMATIC COMMINCATIONS SYSTEMS,

TNC

544 E. WEDDELL DRIVE

SUITE 8

SUNNYVALE, CALIFORNIA 94089

SERIAL NUMBER: 09226869

ISSUE DATE:

PATENT NUMBER:

9846/0149 PAGE 2

SHAREILL COLES, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

Attorney Docket: 1201P Page 1 of 2

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/we, the undersigned, Prasanna M. Shah of Sunnyvale, in the County of Santa Clara and State of California; Robert L. Taber of Santa Clara, in the County of Santa Clara and State of California; and Herbert J. Kniess of San Jose, in the County of Santa Clara and State of California, do hereby sell, assign, and transfer to: Pragmatic Communications Systems, Inc., having a principal place of business at 544 E. Weddell Drive, Suite 8, Sunnyvale, California 94089 (hereinafter termed "Assignee"), its successors, assigns, and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent.

- which has been executed by the undersigned concurrently herewith,
- [X] Serial No. 09/226.869, filed January 6, 1999,

and is entitled:

A SYSTEM AND METHOD FOR SWITCHING SIGNALS OVER TWISTED-PAIR WIRES

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said Unites States application; and

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

ASSIGNMENT (continued)

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Name: Wasanna M. Shah Prasanna M. Shah